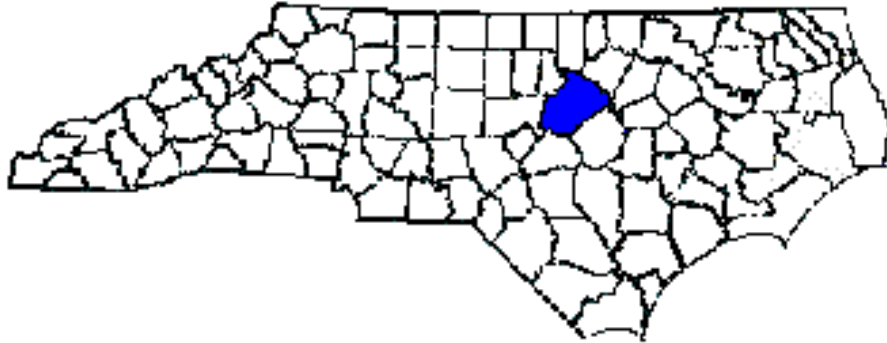


ANNUAL REPORT FOR 2006



**Poplar and Marks Creek Bridge Crossings
Wake County
TIP No. R-2547**



Prepared By:
Natural Environment Unit & Roadside Environmental Unit
North Carolina Department of Transportation
December 2006

TABLE OF CONTENTS

SUMMARY	1
1.0 Introduction	2
.1 Project Description	2
.2 Purpose	2
.3 Project History	2
2.0 Vegetation:	3
.1 Success Criteria	3
.2 Description of Species.....	3
.3 Results of Vegetation Monitoring	3
.4 Conclusions.	3
3.0 Overall Conclusions and Recommendations	3

FIGURES

Figure 1 – Site Location Map	4
------------------------------------	---

APPENDICES

Appendix A – Site Photos	5
--------------------------------	---

SUMMARY

Poplar and Marks Creek Bridge Crossings are located on the Knightdale Bypass in Wake County. The sites are being monitored due to temporary fill being placed in wetlands and protected riparian buffers.

The restoration effort involved the removal of the temporary fill in wetlands and protected riparian buffers and revegetating these areas with a list of species approved by NCDWQ and USACE. No hydrologic monitoring is required for this project.

After the second year of monitoring, Poplar and Marks Creek Bridge Crossings show by visual observation that the wetlands and riparian buffers have revegetated. Some additional plantings did take place in February 2006.

NCDOT proposes to discontinue vegetation monitoring.

1.0 INTRODUCTION

1.1 Project Description

Poplar and Marks Creek Bridge Crossings are located on the Knightdale Bypass in Wake County (Figure 1).

1.2 Purpose

In order for a mitigation site to be considered successful, a site must meet vegetation success criteria. This report details the vegetation monitoring in 2006 at Poplar and Marks Creek Bridge Crossings. Hydrologic monitoring was not required for these sites.

1.3 Project History

September 2005	Year 1 Monitoring
February 2006	Additional Planting
July 2006	Year 2 Monitoring

2.0 VEGETATION: POPLAR AND MARKS CREEK BRIDGE CROSSINGS (YEAR 2 MONITORING)

2.1 Success Criteria

Success Criteria states that the areas where the temporary fill was placed must be inspected on an annual basis for 5 years or until the regulatory agencies waives the requirement in writing.

2.2 Description of Species

Quercus michauxii, Swamp Chestnut Oak

Fraxinus pennsylvanica, Green Ash

Liriodendron tulipifera, Tulip Poplar

Quercus phellos, Willow Oak

Quercus lyrata, Overcup Oak

Platanus occidentalis, Sycamore

2.3 Results of Vegetation Monitoring

The wetlands and riparian buffers where temporary fill was placed have revegetated. The eroded areas along the streambanks of Poplar and Marks Creek noted in last year's report have been repaired.

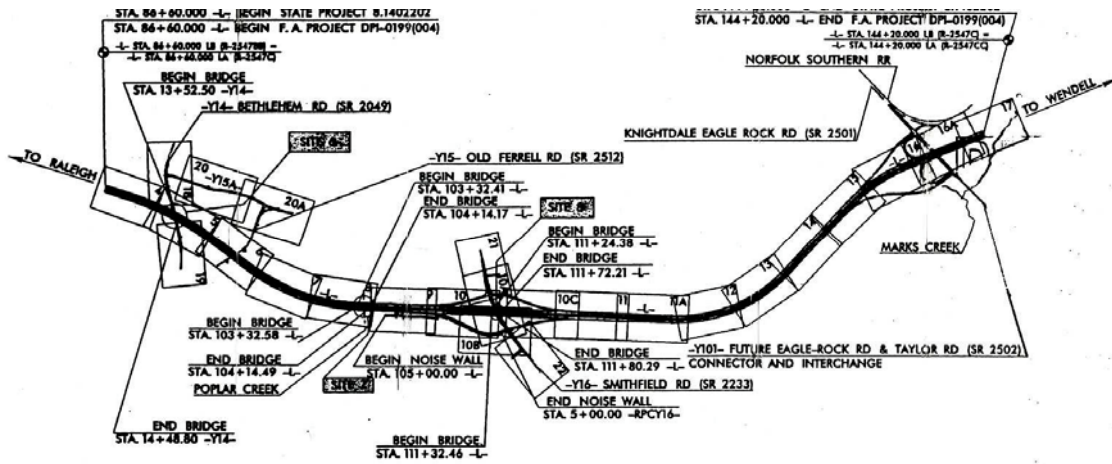
Site Notes: The planted species were surviving within the riparian buffer zones. Other species noted included: woolgrass, *Sagittaria* sp., sedges, fennel, pokeberry, black willow, *Juncus* sp., cattail, lespedeza, silky dogwood, fescue, and various grasses.

2.4 Conclusions

By visual observation the Poplar and Marks Creek Bridge Crossings show that the wetlands and riparian buffers have revegetated. The eroded areas along the streambanks of Poplar and Marks Creek have been repaired and additional plantings took place in February 2006.

3.0 Overall Conclusions and Recommendations

NCDOT proposes to discontinue vegetation monitoring at Poplar and Marks Creek Bridge Crossings.



VICINITY MAP

FIGURE 1

R-2547

WAKE COUNTY

APPENDIX A

SITE PHOTOS

Poplar Creek Bridge



Photo 1



Photo 2

Marks Creek Bridge



Photo 1



Photo 2



Photo 3



Photo 4



Photo 5

July 2006